

What is claimed is:

1. An instrument for inserting an implant in a space between adjacent bony portions, comprising:
 - a housing;
 - 5 a pair of opposing guide members coupled to said housing, each of said pair of guide members including a body with an outer surface and an opposite guide surface and an elongated slot opening therebetween, said slot extending along said respective guide member, the implant being positionable between said guide surfaces;
 - 10 a spreader positioned between said pair of guide members, said spreader including a central body and a pair of opposite wings extending therefrom, each wing being slidingly received in said slot of a corresponding one of said pair of guide members; and
 - 15 a drive member coupled to said spreader and operable to forwardly advance said spreader and the implant positioned forwardly of said spreader toward distal ends of said guide members.
2. The instrument of claim 1, wherein said housing includes a coupling portion and a drive member engaging portion extending proximally from said coupling portion, said drive member engaging portion and said coupling portion including a passage extending therethrough for receiving said drive member.
- 20 3. The instrument of claim 2, wherein said drive member includes a shaft threadingly engaged in said passage and a handle at a proximal end of said shaft.

4. The instrument of claim 3, further comprising an implant holder extending through said drive member and said spreader, said implant holder including an adjustment knob at a proximal end thereof and a distal end extending distally of said spreader.

5 5. The instrument of claim 4, wherein said handle of said drive member includes a proximally opening recess, and said adjustment knob of said implant holder is rotatably received in said recess.

10 6. The instrument of claim 1, wherein said pair of guide members each include an abutment member adjacent said distal end thereof, said abutment member projecting from said outer surface of said respective guide member.

15 7. The instrument of claim 6, wherein said abutment members are each orthogonally oriented relative to a central axis of said respective guide member.

8. The instrument of claim 7, wherein each of said slots extends through said abutment member of said respective guide member.

20 9. The instrument of claim 6, wherein each of said guide members includes a support member extending distally of said abutment member thereof, said support members being positionable in the space between the adjacent bony portion with said abutment members in contact with respective ones of the adjacent bony portions, said support members

being contactable with the adjacent bony portions to distract the adjacent bony portions as said spreader and said implant are advanced toward said distal ends of said guide members.

10. The instrument of claim 1, further comprising an adapter releasably
5 engageable along a distal end wall of said spreader.

11. The instrument of claim 10, wherein said adapter includes a body portion and
a pair of arms extending proximally from opposite ends of said body portion, said pair of
arms being positionable along sidewalls of said spreader to engage said adapter to said
10 spreader.

12. The instrument of claim 11, wherein each of said arms includes a projection at
a distal end thereof, said projections extending toward one another and are removably
positionable in an adjacent detent in said sidewalls of said spreader.
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13. The instrument of claim 11, wherein said spreader includes a proximally
extending central receptacle in said distal end wall, and said adapter body portion includes a
central proximally offset portion received in said receptacle.

20 14. The instrument of claim 13, wherein said spreader includes a bore extending
therethrough and said adapter includes a hole in said central offset portion aligned with said
bore of said spreader, said implant holder distal end extending through said bore and said
hole to engage the implant forwardly of said adapter.

15. The instrument of claim 1, wherein said housing comprises a coupling portion including a pair of upper fingers each defining a proximally opening receptacle and a pair of lower fingers each defining a proximally opening receptacle.

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16. The instrument of claim 15, wherein each of said guide members includes a proximal end adapted to be positioned between a corresponding pair of said upper and lower fingers, said guide members each further including a crossbar rotatably and removably received in said receptacles defined by said corresponding pair of fingers.

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17. The instrument of claim 1, wherein said wings each include a body extending from said central body and an enlarged outer end, said enlarged outer end being sized to capture said wing in said slot of said guide member in which said wing is received.

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18. The instrument of claim 17, wherein each of said slots includes an enlarged proximal end opening adapted to permit passage of said enlarged outer end of said wing therethrough.

19. The instrument of claim 1, wherein said guide surfaces are planar.

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20. An instrument for inserting an implant in a space between adjacent bony portions, comprising:

a housing;

a pair of opposing guide members coupled to said housing, each of said pair of guide members including a body with an outer surface and an opposite guide surface, the implant being positionable between said guide surfaces;

5 a spreader positioned between said pair of guide members;

an adapter releasably coupled to said spreader with a body portion of said adapter along a distal end wall of said spreader; and

10 a drive member coupled to said spreader and operable to forwardly advance said spreader and adapter with the implant positioned forwardly of said adapter toward distal ends of said guide members, said adapter spacing the implant forwardly of said distal end wall of said spreader.

21. The instrument of claim 20, wherein each of said pair of guide members includes an elongated slot opening between said outer surface and said guide surface, said slot extending along a central axis of said respective guide member.

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22. The instrument of claim 21, wherein said spreader includes a central body and a pair of opposite wings extending from said central body slidably received in said slot of a respective one of said pair of guide members.

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23. The instrument of claim 20, wherein said adapter includes a pair of arms extending proximally from opposite ends of said body portion, said pair of arms being positionable along sidewalls of said spreader to engage said adapter to said spreader.

24. The instrument of claim 23, wherein each of said arms includes a projection at a distal end thereof, said projections extending toward one another and being removably positionable in an adjacent detent in said sidewalls of said spreader.

5 25. The instrument of claim 20, wherein said spreader includes a proximally extending central receptacle in said distal end wall, and said adapter body portion includes a central proximally offset portion received in said receptacle.

10 26. The instrument of claim 25, wherein said spreader includes a bore extending therethrough and said adapter includes a hole in said receptacle aligned with said bore of said spreader.

15 27. The instrument of claim 26, further comprising an implant holder extending through said bore and said hole to engage the implant forwardly of said adapter.

28. The instrument of claim 27, wherein said implant holder includes an elongated shaft received through a passage extending through said drive member.

29. The instrument of claim 20, wherein at least one of said guide members is 20 pivotally coupled to said housing, said at least one guide member being pivotal away from the other of said guide members to permit said adapter to be engaged to said spreader.

30. A method for inserting an implant in a space between adjacent bony structures, comprising:

providing an implant inserter comprising:

a housing;

5 a pair of opposing guide members coupled to the housing;

a spreader positioned between the pair of guide members, the spreader including a central body and a pair of opposite wings extending therefrom slidably received in a slot formed along a central axis of a respective one of the pair of guide members;

10 a drive member coupled to the spreader and the drive member engaging portion;

pivoting at least one of the pair of guide members away from the other of the pair of guide members to remove the wing from the slot of the at least one guide member;

positioning an implant between the pair of guide members and forwardly of the 15 spreader; and

pivoting the at least one guide member toward the other guide member to position the wing of the spreader in the slot of the at least one guide member.

31. The method of claim 30, wherein the slot includes an enlarged proximal end 20 opening and pivoting the at least one guide member positions the implant in the enlarged proximal end opening of the slot.

32. The method of claim 30, further comprising coupling an adapter along a distal end wall of the spreader before positioning the implant.

5 33. The method of claim 32, wherein coupling the adapter includes engaging proximally extending arms of the adapter to sidewalls of the spreader.

34. The method of claim 32, further comprising engaging the implant with an implant holder, the implant holder including a distal end extending distally of the adapter, a shaft extending through the drive member, and a proximal end with an adjustment member.

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35. The method of claim 32, further comprising selecting the adapter from a set of adapters.

15 36. The method of claim 30, further comprising engaging the implant with an implant holder, the implant holder including a distal end extending distally of the spreader, a shaft extending through the drive member, and a proximal end with an adjustment member.

20 37. The method of claim 30, further comprising:
positioning distal support members of the guide members in the space;
manipulating the drive member to distally advance the spreader and implant between the guide members toward the space; and
distracting the disc space with the support members as the distal advancement of the implant and spreader move the guide members away from one another.

38. The method of claim 37, further comprising distally advancing the implant in
into the space until the wings contact the adjacent bony portions.

5 39. The method of claim 38, further comprising withdrawing the support members
from the space between the implant and the adjacent bony portions by manipulating the drive
member to push the wings against the adjacent bony portions thereby proximally displacing
the guide members relative to the bony portions and the implant.

10 40. The method of claim 30, further comprising selecting the upper and lower
guide members from a set of guide members.